Year 2000 FAA Software Standardization Conference

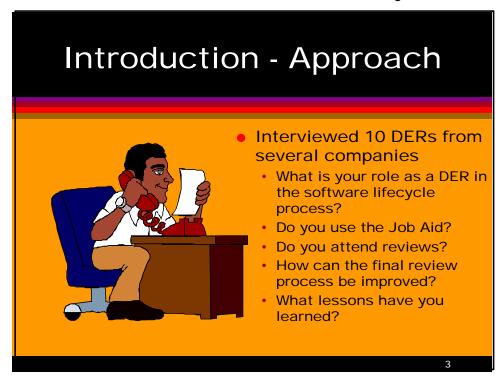
Software DER's Role in the Software Lifecycle Process

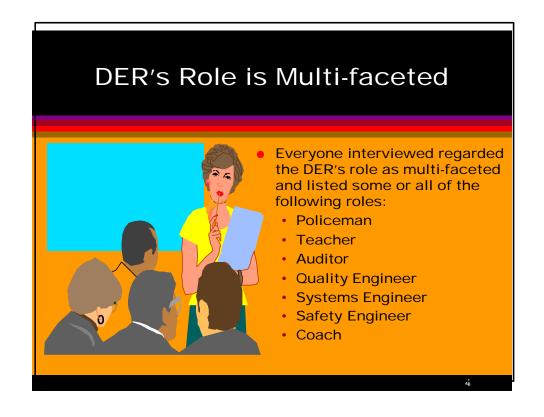
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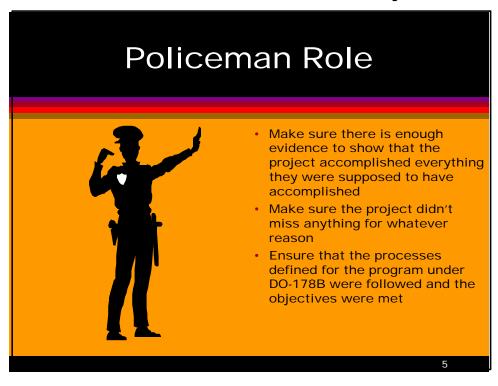
Agenda

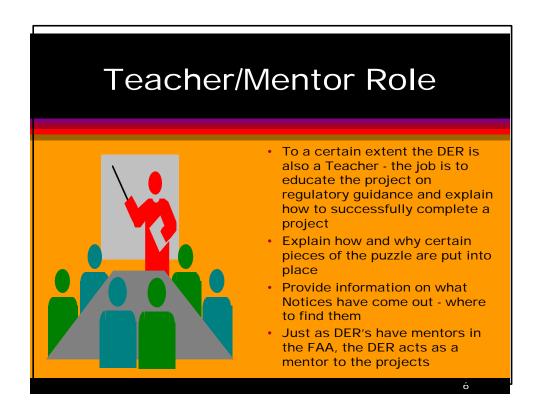
- Introduction
- DER Interviews
 - DER Roles
- Applying the Job Aid
- What Helps Facilitate the Approval Process - Lessons Learned
- Discussion

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System Engineer Role



- Open people's eyes to see how their piece of software interacts in an airplane
- Help to ensure that the projects enforce a sense of consistency across projects

In many cases, the DER may not have extensive knowledge in the systems engineer's role, but should at least look for evidence that the project has considered the larger picture

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Safety Engineer Role



- The equipment and its' use will have safety implications
- Many projects do not have a dedicated safety engineer
- The DER should make sure that the systems people did not change any of the basic fundamentals
 - Example: If the project decided that this was a Level B box based on redundancy and this was part of the safety analysis, then if the box was installed differently, the criteria has changed
- Review the safety analysis to understand criticality levels and PSAC concurrence

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